

Title (en)

Voltage controlled integrated circuit for biasing an RF device.

Title (de)

Spannungsgesteuerte integrierte Schaltung für die Vorspannung eines Hochfrequenzgerätes.

Title (fr)

Circuit intégré commandé en tension pour polariser un dispositif à haute fréquence.

Publication

EP 0609053 A3 19950802 (EN)

Application

EP 94300546 A 19940125

Priority

US 1139293 A 19930129

Abstract (en)

[origin: EP0609053A2] The present invention is directed to a voltage controlled single-package integrated circuit device, capable of thermal compensation, for biasing a quasi-linear bipolar device. The bias circuit also provides a low impedance source to a RF device so that the bias point does not dynamically change with the RF signal, thus improving linearity. Changes in the base-emitter voltage level of the RF device are monitored by a reference diode to provide automatic temperature compensation. The reference diode is in close thermal proximity to the RF device, allowing for accurate thermal tracking. The base-emitter voltage may be electronically adjusted by means of a control voltage input, such being suitable for hook-up to a computer system having a digital to analog convertor thereby allowing for fine voltage adjustments. The control voltage may also be used to adjust the class of operation of the RF device or provide external temperature control. <IMAGE>

IPC 1-7

H03F 1/30; **G05F 3/22**

IPC 8 full level

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CPC (source: EP US)

G05F 3/222 (2013.01 - EP US); **H03F 1/0261** (2013.01 - EP US); **H03F 1/302** (2013.01 - EP US); **H03F 3/19** (2013.01 - EP US); **H03F 2200/18** (2013.01 - EP US); **H03F 2200/321** (2013.01 - EP US)

Citation (search report)

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